TEST REPORT

Product Name : LED Bulb T2
Model Number : LB-L02E, LB-L02D

Prepared for	:	Lumi United Technology Co., Ltd
Address	:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China
Prepared by	:	EMTEK(DONGGUAN) CO., LTD.
Address	:	Room 111&112,Building 8,-1&2/F., Office Building2,Zone A,Zhongda Marine Biotechnology Research and Development Base, No.9,Xincheng Avenue, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China Tel : +86-769-22807078 Fax: +86-769-22807079
Report Number	:	EDG2408010102E02301R
Date(s) of Tests	:	August 01, 2024 to November 23, 2024
Date of issue	:	November 23, 2024

TABLE OF CONTENTS

APPLICATION FOR DESCRIPTION

Applicant	:	Lumi United Technology Co., Ltd
Manufacturer	:	Lumi United Technology Co., Ltd
EUT	:	LED Bulb T2
Model No.	:	LB-L02E, LB-L02D
Input Rating	:	100-240V, 50/60Hz

Measurement Procedure Used:

AS CISPR 15:2017 Electromagnetic compatibility – Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. for compliance with the requirements set forth in the Australian EMC regulations and the requirements procedure according to AS CISPR 15. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of EMTEK (DONGGUAN) CO., LTD

Date of Test : August 01, 2024 to November 23, 2024

Warren Deng

Prepared by : Warren Deng /Editor

Galen Xiao

Reviewer : Galen Xiao /Supervisor

Approved & Authorized Signer : Sam Lv / Manager

Modified Information

Version	Summary	Revision Date	Report No.
	Original Report	/	EDG2408010102E02301R

1. DESCRIPTION OF STANDARDS AND RESULTS

EMISSION			
Description of Test Item	Standard	Limits	Results
Disturbance Voltage at the Mains Terminal	AS CISPR 15:2017	Table 2a	Pass
Radiated Disturbance	AS CISPR 15:2017	Table 3b	Pass
Magnetic Field Emission Measurement	AS CISPR 15:2017	Table 3a	Pass

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	:	LED Bulb T2
Model Number	:	LB-L02E, LB-L02D Model LB-102D is CCT+RGB, while model LB-102D is CCT. LB-L02D and LB-L02E are selected to test all the test items.
Trade Mark	:	Aqara
Power Supply for Test	:	AC100-240V 50/60Hz
Operate Mode	:	ON (white, high brightness) ON (white, low brightness) ON (RGB)
Applicant	:	Lumi United Technology Co., Ltd
Address	:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China
Manufacturer	:	Lumi United Technology Co., Ltd
Address	:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China
Date of Received	:	August 01, 2024
Date of Test	:	August 01, 2024 to November 23, 2024

2.2 Description of Test Facility

Site Description		
EMC Lab.	:	Accredited by CNAS, 2024.07.06 The certificate is valid until 2030.07.05 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2018 The Certificate Registration Number is L3150
Name of Firm	:	EMTEK(DONGGUAN) CO., LTD
Site Location	:	-1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Reserch and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China.

2.3 Measurement Uncertainty

Test Item		Uncertainty
Conducted Emission Uncertainty	:	2.08dB(9K-150KHz) 2.42dB(150K-30MHz)
Radiated Emission Uncertainty (3m Chamber)	:	3.32dB (30M~1GHz Polarize: H) 3.34dB (30M~1GHz Polarize: V)
Magnetic Emission Uncertainty		2.8dB
Uncertainty for test site temperature and humidity	:	0.6℃ 4%

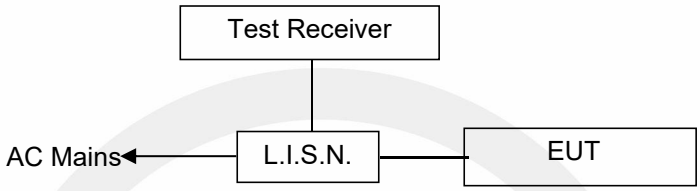
3. POWER LINE CONDUCTED MEASUREMENT

3.1 Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde&Schwarz	ESCI	100137	2024/4/29	1 Year
2.	AMN	Rohde&Schwarz	ENV216	101209	2024/4/28	1 Year

3.2 Block Diagram of Test Setup



3.3 Power Line Conducted Emission Measurement Standard and Limits

3.3.1 Standard

AS CISPR 15:2017

3.3.2 Limits

Frequency	At mains terminals (dBμV)	
	Quasi-peak Level	Average Level
9KHz ~ 50KHz	110	--
50KHz ~ 150KHz	90 ~ 80*	--
150KHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4 Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.5 Operating Condition of EUT

Step 1: Setup the EUT and simulator as shown as Section 3.2.

Step 2: Turn on the power of all equipment.

Step 3: Let the EUT work in test modes (ON (white, high brightness), ON (white, low brightness), ON (RGB)) and measure it.

3.6 Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels.

The bandwidth of test receiver (Rohde&Schwarz ESCI) is set at 9kHz.

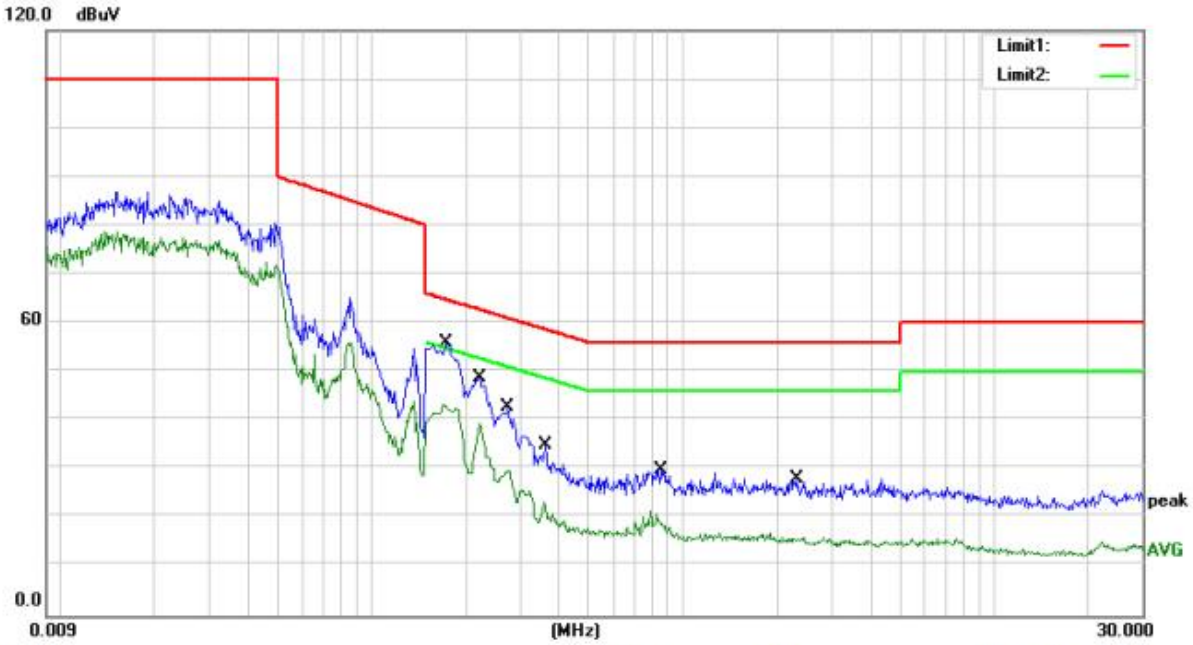
The frequency range from 9kHz to 30MHz is checked.

3.7 Power Line Conducted Emission Measurement Results

Pass

The worst test data(ON (white, high brightness)) are attached on following pages.

Model：LB-L02D



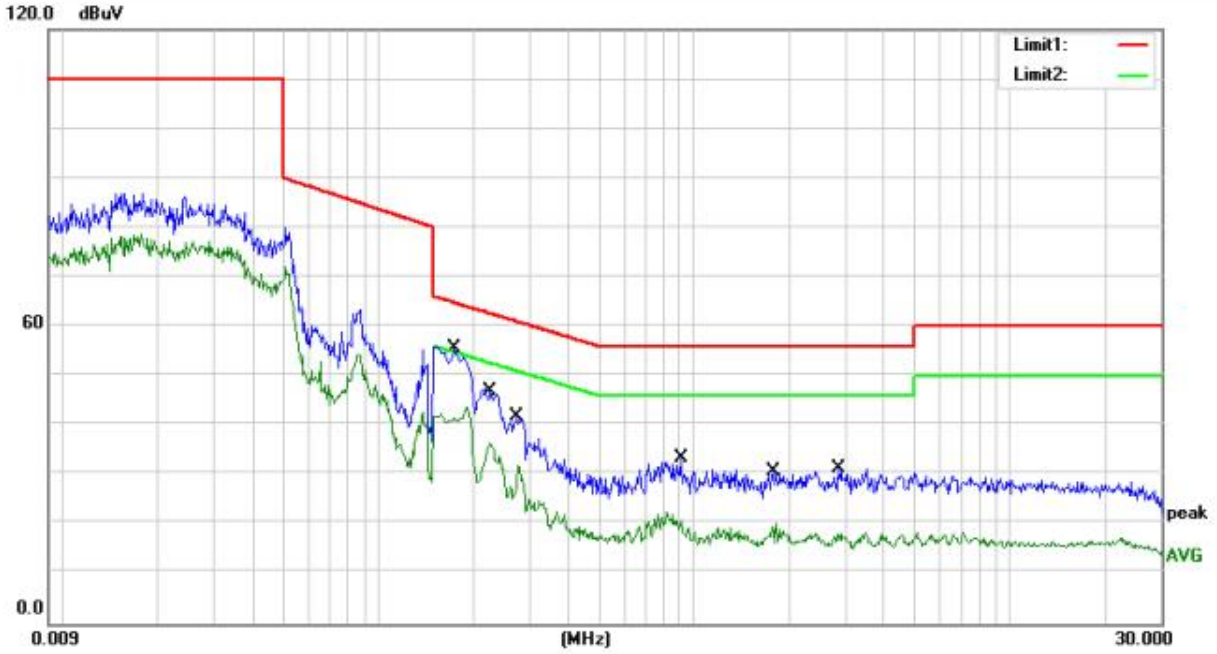
Site site #1 Phase: L1 Temperature: 22.5

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	38.86	17.05	55.91	64.77	-8.86	QP	
2		0.1740	26.22	17.05	43.27	54.77	-11.50	AVG	
3		0.2220	31.66	17.05	48.71	62.74	-14.03	QP	
4		0.2220	22.35	17.05	39.40	52.74	-13.34	AVG	
5		0.2740	25.55	17.09	42.64	61.00	-18.36	QP	
6		0.2740	12.76	17.09	29.85	51.00	-21.15	AVG	
7		0.3620	18.04	17.06	35.10	58.68	-23.58	QP	
8		0.3620	6.06	17.06	23.12	48.68	-25.56	AVG	
9		0.8580	12.70	17.02	29.72	56.00	-26.28	QP	
10		0.8580	4.57	17.02	21.59	46.00	-24.41	AVG	
11		2.3140	10.91	17.08	27.99	56.00	-28.01	QP	
12		2.3140	-1.02	17.08	16.06	46.00	-29.94	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:

1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)



Site site #1 Phase: N Temperature: 22.5

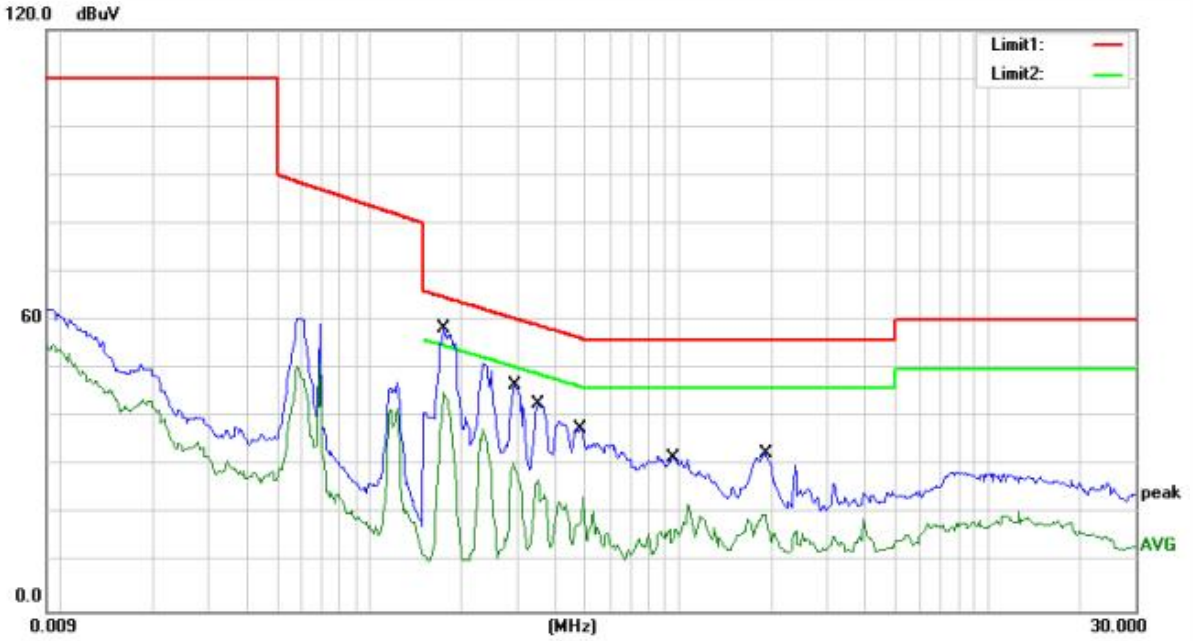
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	38.48	17.05	55.53	64.77	-9.24	QP	
2		0.1740	26.60	17.05	43.65	54.77	-11.12	AVG	
3		0.2260	29.95	17.05	47.00	62.60	-15.60	QP	
4		0.2260	19.40	17.05	36.45	52.60	-16.15	AVG	
5		0.2740	24.66	17.09	41.75	61.00	-19.25	QP	
6		0.2740	14.76	17.09	31.85	51.00	-19.15	AVG	
7		0.9060	16.48	17.02	33.50	56.00	-22.50	QP	
8		0.9060	5.69	17.02	22.71	46.00	-23.29	AVG	
9		1.7700	13.79	17.09	30.88	56.00	-25.12	QP	
10		1.7700	3.03	17.09	20.12	46.00	-25.88	AVG	
11		2.8700	14.24	17.03	31.27	56.00	-24.73	QP	
12		2.8700	1.22	17.03	18.25	46.00	-27.75	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:

1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)

Model：LB-L02E



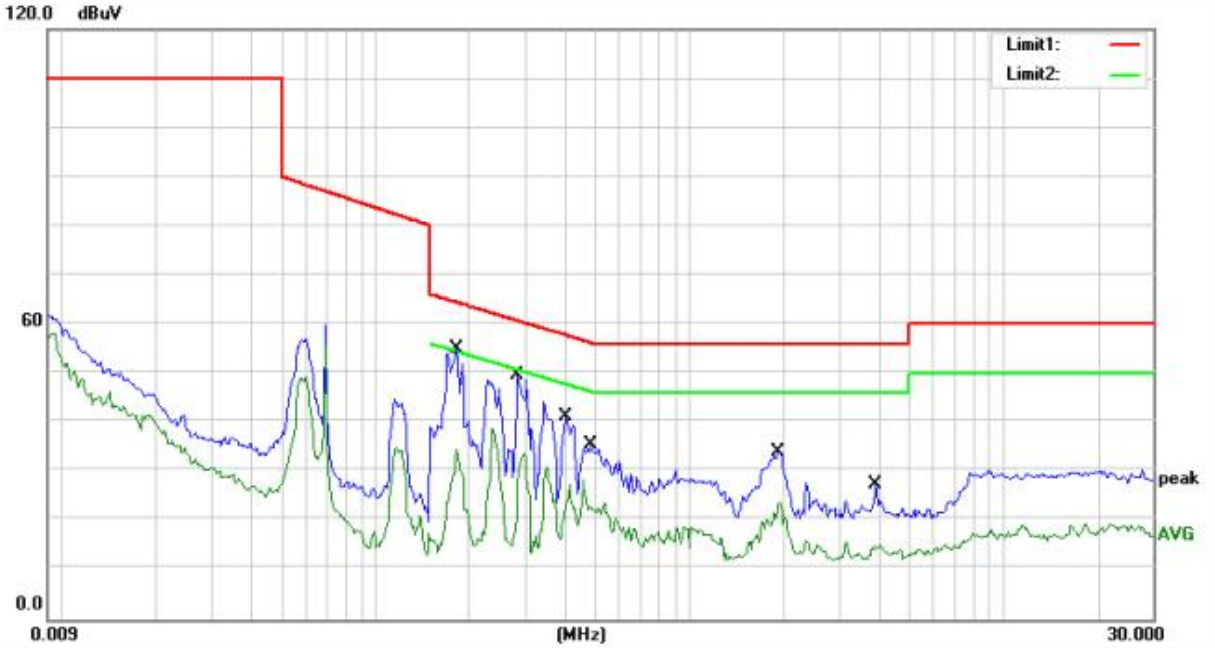
Site site #1 Phase: L1 Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1733	58.20	0.00	58.20	64.80	-6.60	QP	
2		0.1733	45.00	0.00	45.00	54.80	-9.80	AVG	
3		0.2943	46.66	0.00	46.66	60.40	-13.74	QP	
4		0.2943	30.75	0.00	30.75	50.40	-19.65	AVG	
5		0.3492	42.85	0.00	42.85	58.98	-16.13	QP	
6		0.3492	27.14	0.00	27.14	48.98	-21.84	AVG	
7		0.4820	37.67	0.00	37.67	56.30	-18.63	QP	
8		0.4820	23.69	0.00	23.69	46.30	-22.61	AVG	
9		0.9546	31.75	0.00	31.75	56.00	-24.25	QP	
10		0.9546	21.99	0.00	21.99	46.00	-24.01	AVG	
11		1.9233	32.64	0.00	32.64	56.00	-23.36	QP	
12		1.9233	20.09	0.00	20.09	46.00	-25.91	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:

1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)



Site site #1 Phase: N Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1811	55.15	0.00	55.15	64.44	-9.29	QP	
2		0.1811	34.74	0.00	34.74	54.44	-19.70	AVG	
3		0.2827	49.72	0.00	49.72	60.74	-11.02	QP	
4		0.2827	33.27	0.00	33.27	50.74	-17.47	AVG	
5		0.4040	41.38	0.00	41.38	57.77	-16.39	QP	
6		0.4040	27.36	0.00	27.36	47.77	-20.41	AVG	
7		0.4860	35.61	0.00	35.61	56.24	-20.63	QP	
8		0.4860	28.27	0.00	28.27	46.24	-17.97	AVG	
9		1.9075	33.96	0.00	33.96	56.00	-22.04	QP	
10		1.9075	23.72	0.00	23.72	46.00	-22.28	AVG	
11		3.9272	27.32	0.00	27.32	56.00	-28.68	QP	
12		3.9272	15.08	0.00	15.08	46.00	-30.92	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:

1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)

4. RADIATED EMISSION MEASUREMENT

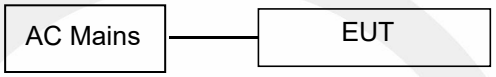
4.1 Test Equipment

The following test equipments are used during the radiated emission measurement:

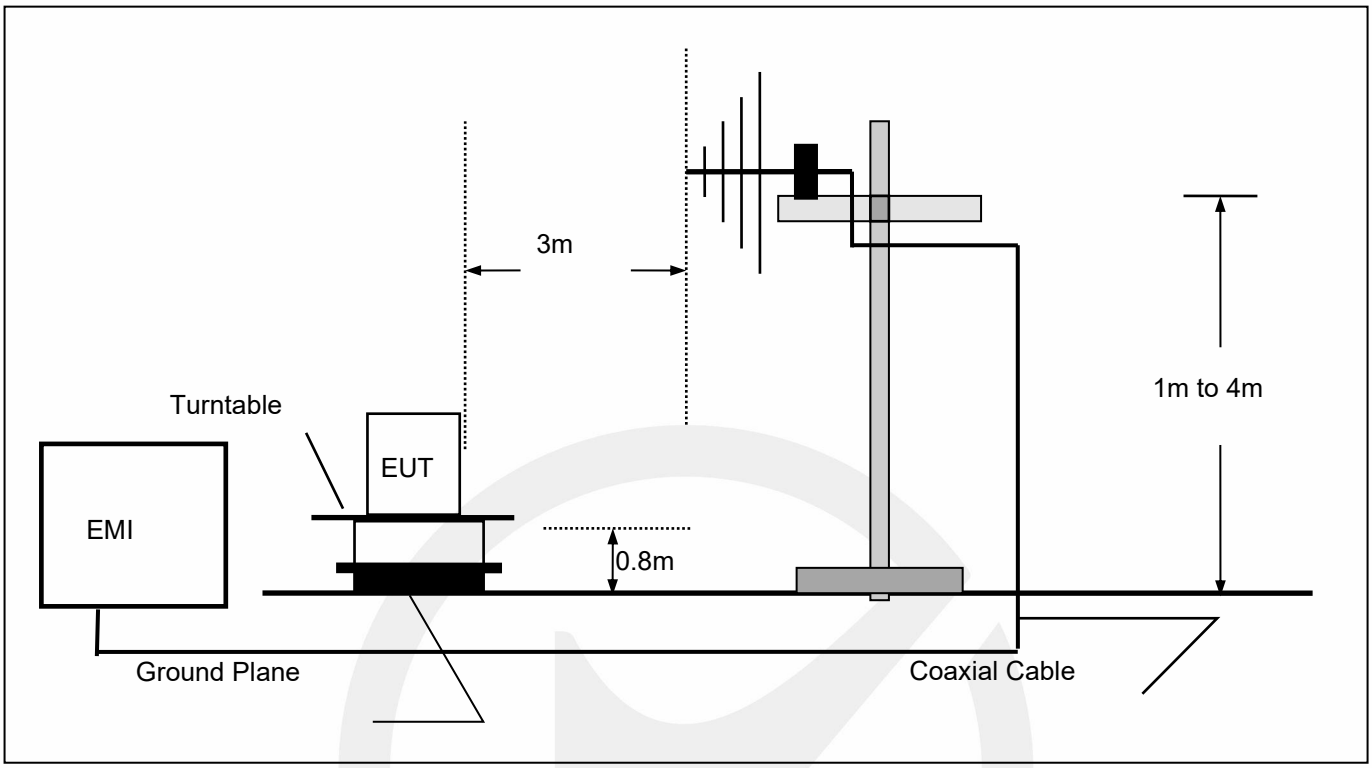
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde&Schwarz	ESCI	101415	2024/4/28	1 Year
2.	Bi-log Hybrid Antenna	Schwarzbeck	VULB9163	141	2024/5/5	1 Year
3.	Pre-Amplifie	HP	8447F	OPTH64	2024/4/28	1 Year

4.2 Block Diagram of Test Setup

4.2.1 Block diagram of connection between the EUT and simulators



4.2.2 Anechoic Chamber Test Setup Diagram



4.3 Measuring Standard

AS CISPR 15:2017

4.4 Radiated Emission Limits

All emanations from a device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.5 EUT Configuration on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.6 Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 4.2.

Step 2: Turn on the power of all equipment.

Step 3: Let the EUT work in test modes (ON (white, high brightness), ON (white, low brightness), ON (RGB)) and measure them.

4.7 Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4.0 meter to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to AS/NZS CISPR 15 on radiated emission measurement.

The bandwidth of the EMI test receiver (Rohde & Schwarz ESCI) is set at 120kHz.

4.8 Radiated Emission Measurement Results

Pass.

The frequency range from 30MHz to 300MHz is investigated.

The worst test data(ON (white, high brightness)) are attached in the following pages.

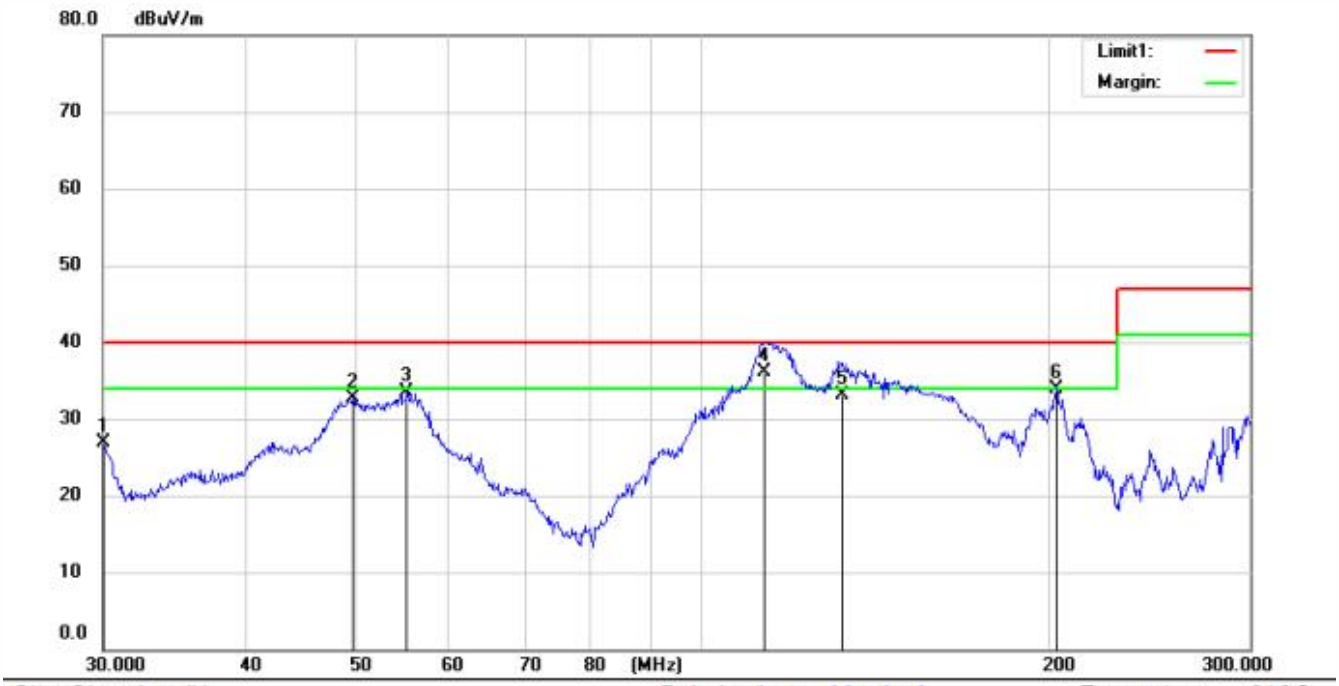
Model：LB-L02D

Site Chamber #1 Polarization: *Horizontal* Temperature: 24.3 C

No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure-ment	Limit	Over		HI	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1		55.0962	43.28	13.48	30.5	0.92	27.18	40.00	-12.82	QP			
2		111.9750	44.67	11.14	30.83	1.17	26.15	40.00	-13.85	QP			
3		136.1825	43.77	8.18	30.7	1.34	22.59	40.00	-17.41	QP			
4		203.2925	49.09	11.69	30.34	1.73	32.17	40.00	-7.83	QP			
5	*	213.8560	50.02	11.99	30.29	1.82	33.54	40.00	-6.46	QP			
6		297.9348	42.83	13.86	29.84	2.16	29.01	47.00	-17.99	QP			

*:Maximum data x:Over limit !:over margin Operator: Ccyf

Remark:
1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)



Site Chamber #1 Polarization: *Vertical* Temperature: 24.3 C

No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure-ment	Limit	Over		HI	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1		30.0000	45.79	11.2	30.57	0.58	27.00	40.00	-13.00	QP			
2		49.5590	48.43	13.98	30.48	0.77	32.70	40.00	-7.30	QP			
3		55.2232	49.68	13.45	30.5	0.92	33.55	40.00	-6.45	QP			
4	*	113.2717	54.93	10.91	30.82	1.18	36.20	40.00	-3.80	QP			
5		132.4711	54.31	8.3	30.72	1.31	33.20	40.00	-6.80	QP			
6		203.2925	50.79	11.69	30.34	1.73	33.87	40.00	-6.13	QP			

*:Maximum data x:Over limit !:over margin Operator: Ccyf

Remark:
1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)

Model：LB-L02E

Site Chamber #1 Polarization: *Horizontal* Temperature: 23.8 C

No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure-ment	Limit	Over		HI	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1		55.8047	45.68	13.31	30.5	0.94	29.43	40.00	-10.57	QP			
2		98.1418	39.53	11.3	30.86	1.08	21.05	40.00	-18.95	QP			
3		125.8864	48.43	8.98	30.75	1.27	27.93	40.00	-12.07	QP			
4	*	155.3644	53.48	8.71	30.6	1.47	33.06	40.00	-6.94	QP			
5		228.4901	46.00	12.4	30.21	1.95	30.14	40.00	-9.86	QP			
6		297.2240	48.57	13.85	29.84	2.16	34.74	47.00	-12.26	QP			

*:Maximum data x:Over limit !:over margin Operator: Ccyf

Remark:
1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)

Site Chamber #1 Polarization: *Vertical* Temperature: 23.8 C

No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure-ment	Limit	Over		HI	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1	!	56.1974	51.64	13.21	30.5	0.95	35.30	40.00	-4.70	QP			
2	!	131.7577	55.26	8.33	30.72	1.31	34.18	40.00	-5.82	QP			
3	*	164.9075	56.31	9.19	30.55	1.52	36.47	40.00	-3.53	QP			
4		226.8936	49.64	12.35	30.22	1.93	33.70	40.00	-6.30	QP			
5		239.1472	55.48	12.7	30.15	2.04	40.07	47.00	-6.93	QP			
6		281.0074	52.79	13.56	29.93	2.15	38.57	47.00	-8.43	QP			

*:Maximum data x:Over limit !:over margin Operator: Ccyf

Remark:
1. Measurement (dB μ V/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dB μ V/m)
2. Over (dB) = Measurement (dB μ V/m) - Limit (dB μ V/m)

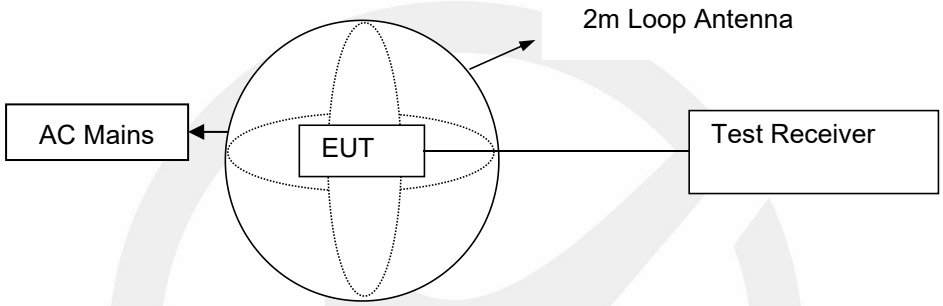
5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1 Test Equipment

The following test equipments are used during the magnetic field emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde&Schwarz	ESCI	100137	2024/4/28	1 Year
2.	Van Ween Loop Antenna	Laplace	RF300	SLOHYH	2024/4/28	1 Year

5.2 Block Diagram of Test Setup



5.3 Magnetic Field Emission Measurement Standard and Limits

5.3.1 Test Standard

AS CISPR 15:2017

5.3.2 Test Limits

Frequency	Limits for loop diameter (dBμA)
	2m
9KHz ~ 70KHz	88
70KHz ~ 150KHz	88 ~ 58*
150KHz ~ 3.0MHz	58 ~ 22*
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

5.4 EUT Configuration on Measurement

The configuration of the EUT is same as Section 5.2.

5.5 Operating Condition of EUT

Same as conducted measurement which is listed in Section 3.5, except that the test set up replaced by Section 5.2.

5.6 Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver.

Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150KHz, the bandwidth of the field strength meter (Rohde & Schwarz test receiver ESCI) is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

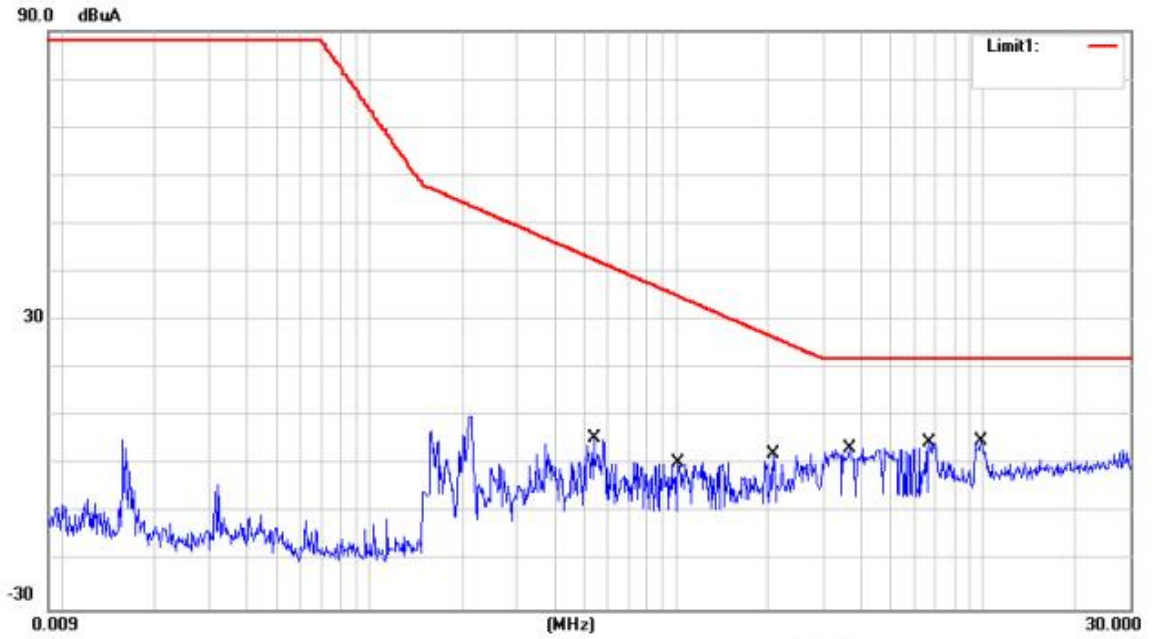
5.7 Test Results

PASS.

The frequency range from 9kHz to 30MHz is investigated.

The worst test data(ON (white, high brightness)) are attached in the following pages.

Model：LB-L02D

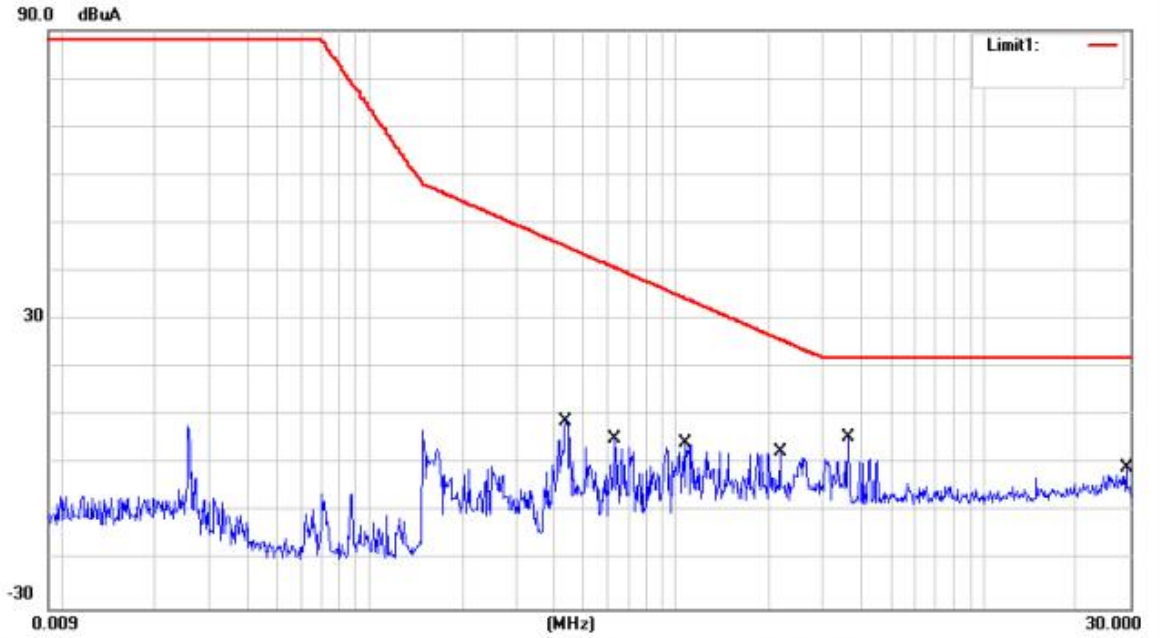


Site site #1 Phase: LOOP A Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.5380	-17.63	23.14	5.51	42.65	-37.14	QP	
2		1.0180	-23.17	23.53	0.36	34.99	-34.63	QP	
3		2.0700	-22.10	24.40	2.30	26.46	-24.16	QP	
4		3.6820	-22.30	25.74	3.44	22.00	-18.56	QP	
5		6.6540	-21.65	26.41	4.76	22.00	-17.24	QP	
6	*	9.8660	-22.06	26.90	4.84	22.00	-17.16	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μ A) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μ A)
2. Over (dB) = Measurement (dB μ A) - Limit (dB μ A)

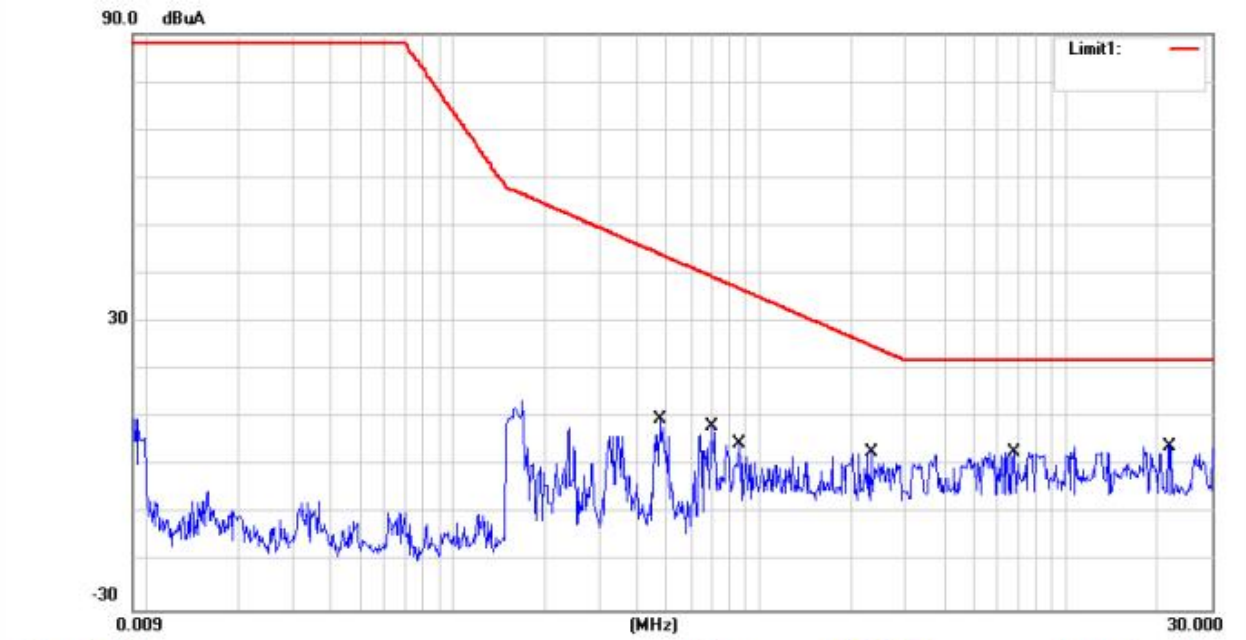


Site site #1 Phase: LOOP B Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.4380	-14.31	23.05	8.74	45.12	-36.38	QP	
2		0.6300	-17.86	23.21	5.35	40.75	-35.40	QP	
3		1.0700	-19.35	23.58	4.23	34.39	-30.16	QP	
4		2.1780	-21.96	24.49	2.53	25.85	-23.32	QP	
5	*	3.6260	-20.02	25.69	5.67	22.00	-16.33	QP	
6		29.2380	-30.51	29.88	-0.63	22.00	-22.63	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μ A) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μ A)
2. Over (dB) = Measurement (dB μ A) - Limit (dB μ A)



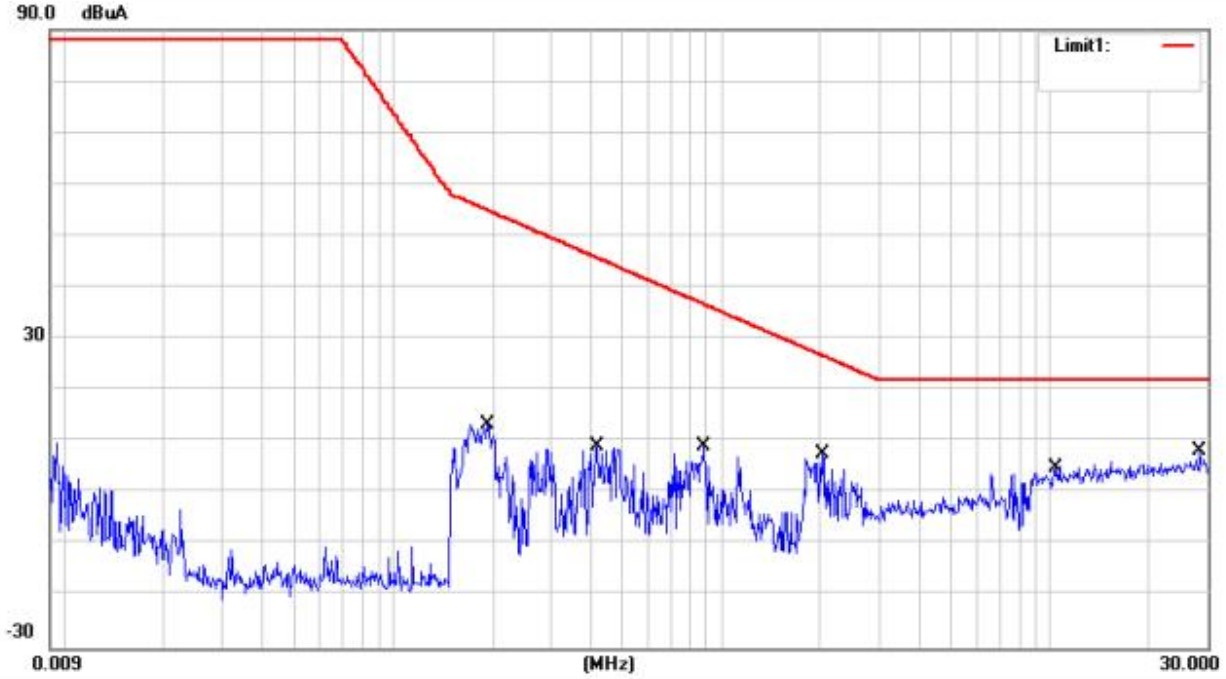
Site site #1 Phase: LOOP C Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.4740	-13.47	23.08	9.61	44.17	-34.56	QP	
2		0.7060	-15.15	23.28	8.13	39.39	-31.26	QP	
3		0.8660	-18.91	23.41	4.50	36.93	-32.43	QP	
4		2.3300	-21.83	24.62	2.79	25.04	-22.25	QP	
5		6.8380	-23.48	26.44	2.96	22.00	-19.04	QP	
6	*	21.7500	-24.67	28.73	4.06	22.00	-17.94	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μA) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μA)
2. Over (dB) = Measurement (dB μA) - Limit (dB μA)

Model: LB-L02E

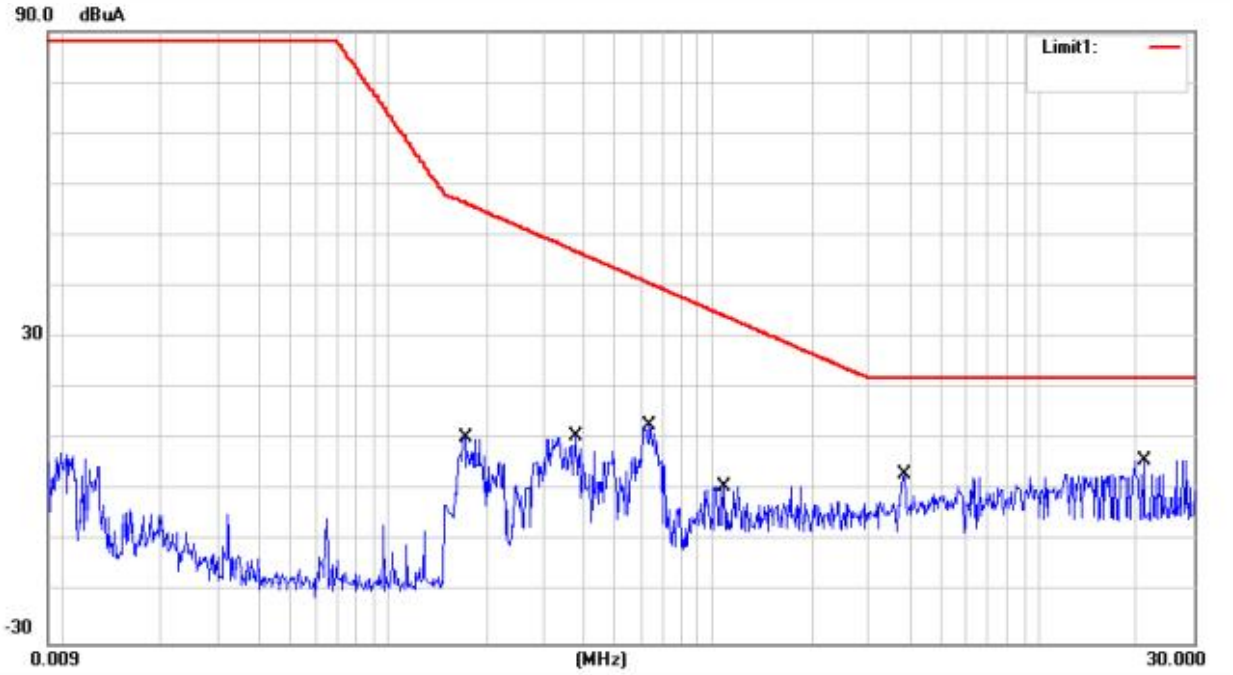


Site site #1 Phase: LOOP A Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.1940	-9.46	22.85	13.39	54.91	-41.52	QP	
2		0.4180	-13.77	23.04	9.27	45.68	-36.41	QP	
3		0.8820	-14.18	23.42	9.24	36.71	-27.47	QP	
4		2.0140	-16.81	24.36	7.55	26.79	-19.24	QP	
5		10.4220	-22.07	26.99	4.92	22.00	-17.08	QP	
6	*	28.5580	-21.53	29.78	8.25	22.00	-13.75	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μ A) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μ A)
2. Over (dB) = Measurement (dB μ A) - Limit (dB μ A)

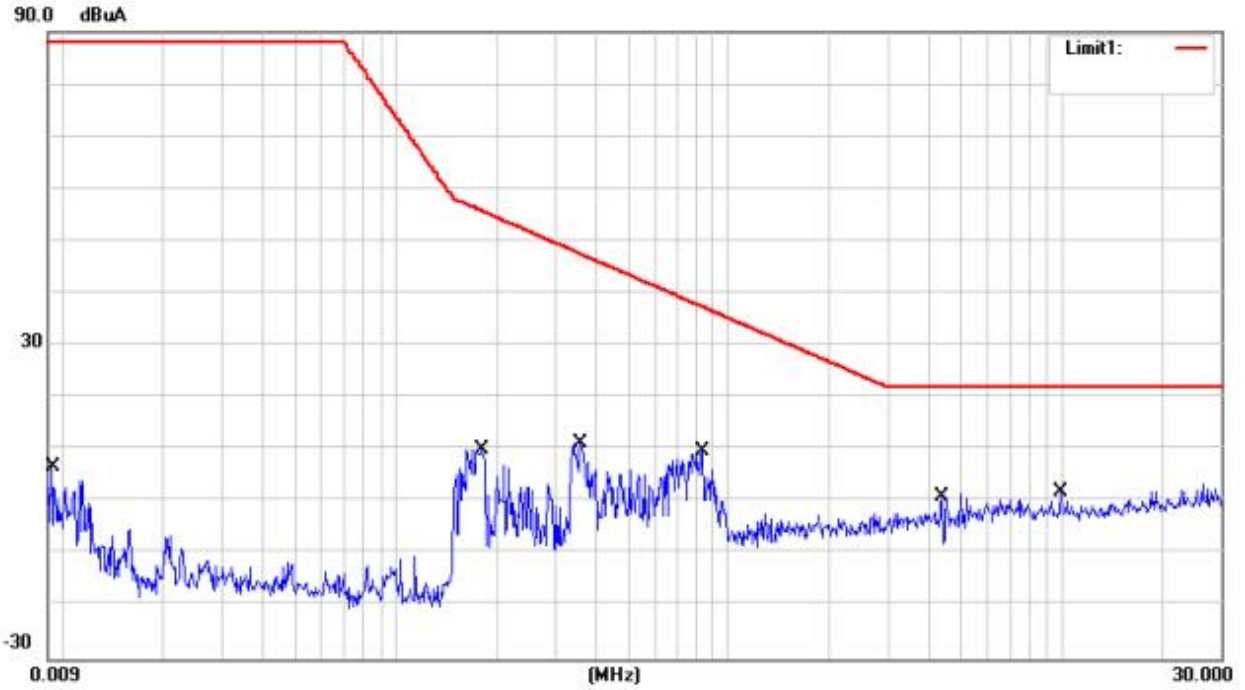


Site site #1 Phase: LOOP B Temperature: 19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.1723	-12.37	22.84	10.47	56.33	-45.86	QP	
2		0.3780	-12.24	23.01	10.77	46.89	-36.12	QP	
3		0.6380	-10.48	23.22	12.74	40.60	-27.86	QP	
4		1.0860	-22.81	23.59	0.78	34.21	-33.43	QP	
5		3.8740	-22.62	25.90	3.28	22.00	-18.72	QP	
6	*	21.1100	-22.75	28.63	5.88	22.00	-16.12	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μ A) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μ A)
2. Over (dB) = Measurement (dB μ A) - Limit (dB μ A)



Site site #1 Phase: LOOP C Temperature: 19

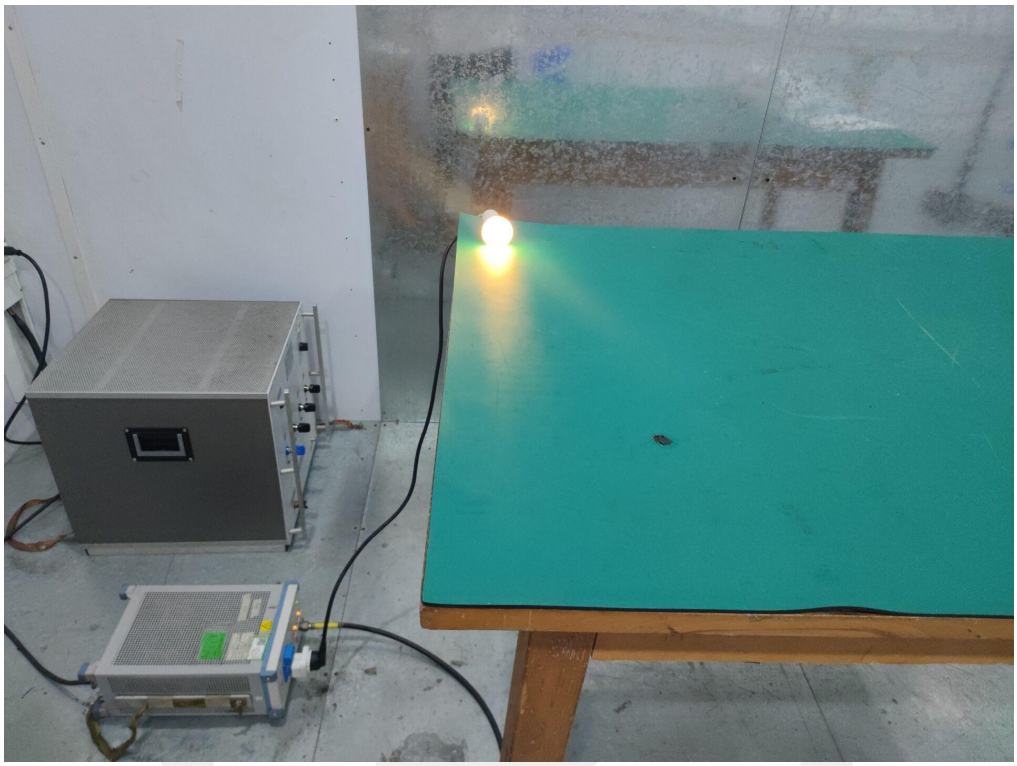
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.0091	-15.97	22.70	6.73	88.00	-81.27	QP	
2		0.1820	-12.66	22.84	10.18	55.68	-45.50	QP	
3		0.3580	-11.78	22.99	11.21	47.55	-36.34	QP	
4		0.8340	-13.62	23.38	9.76	37.38	-27.62	QP	
5		4.3580	-24.95	26.06	1.11	22.00	-20.89	QP	
6	*	9.9180	-24.85	26.91	2.06	22.00	-19.94	QP	

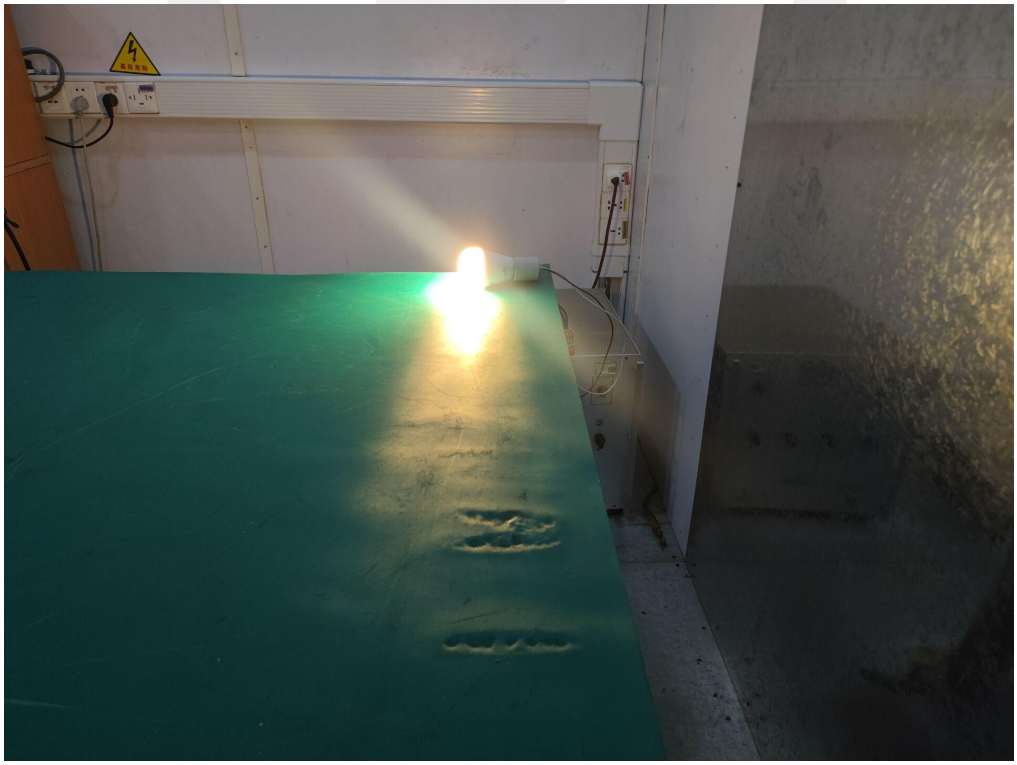
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:
1. Measurement (dB μ A) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dB μ A)
2. Over (dB) = Measurement (dB μ A) - Limit (dB μ A)

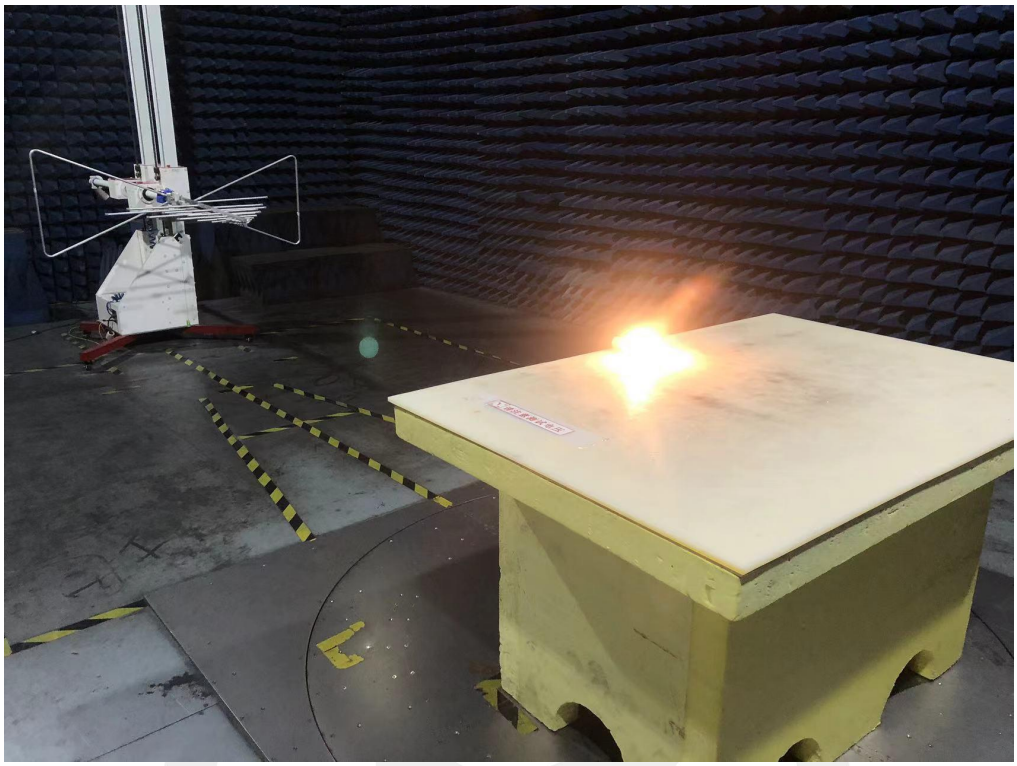
6. PHOTOGRAPH

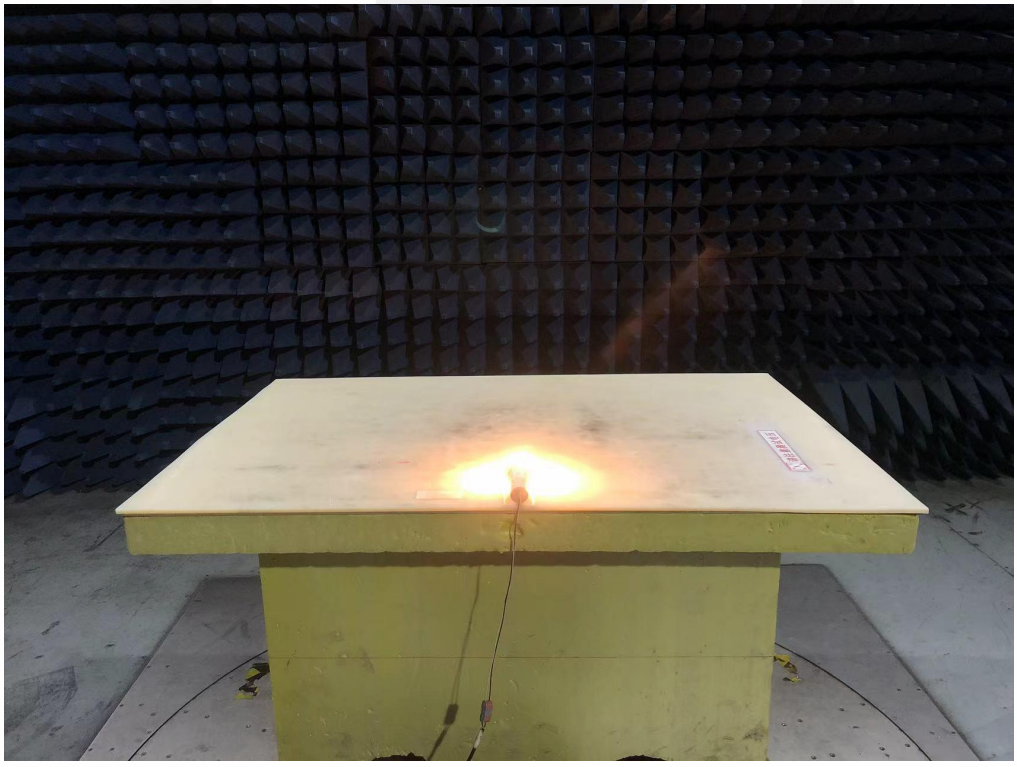
6.1 Photo of Conducted Measurement





6.2 Photo of Radiated Measurement

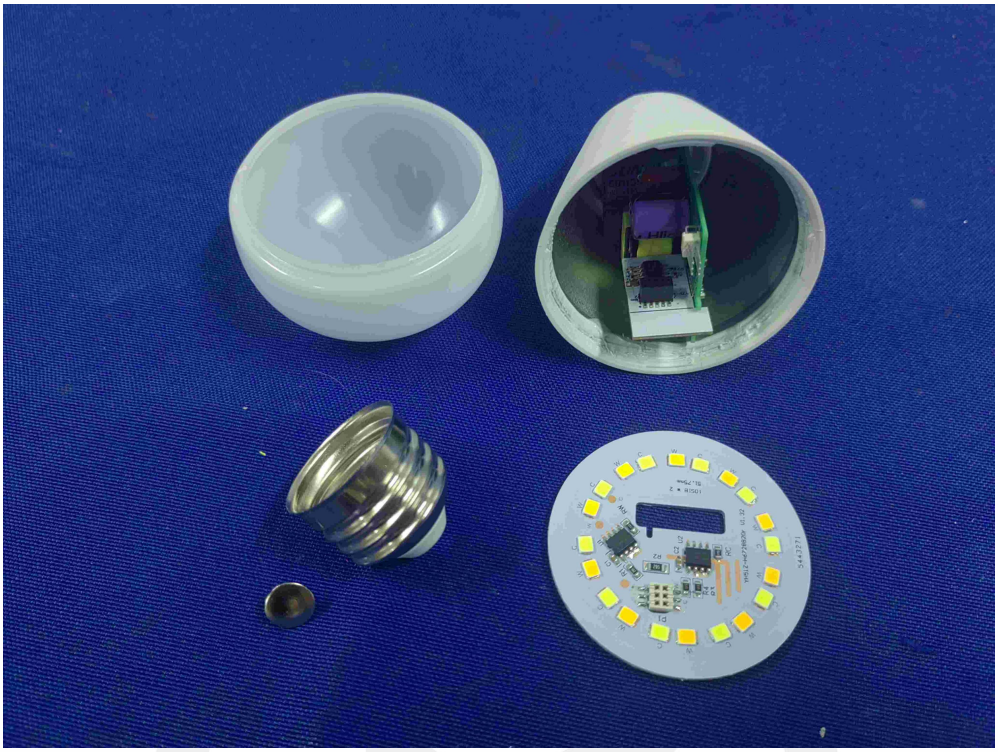


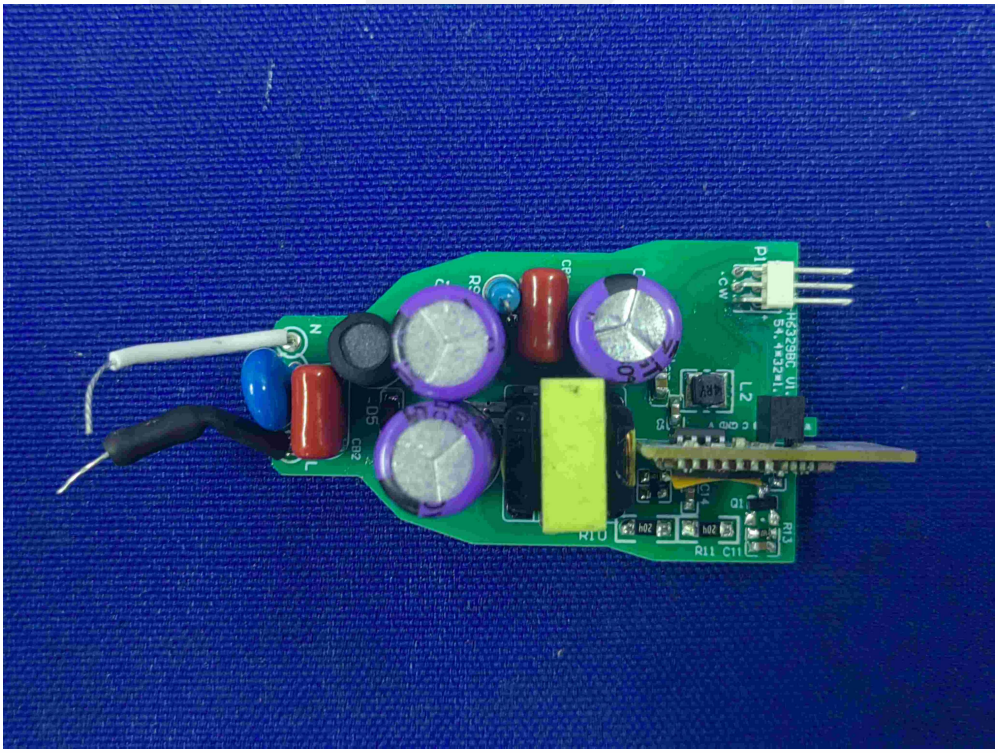


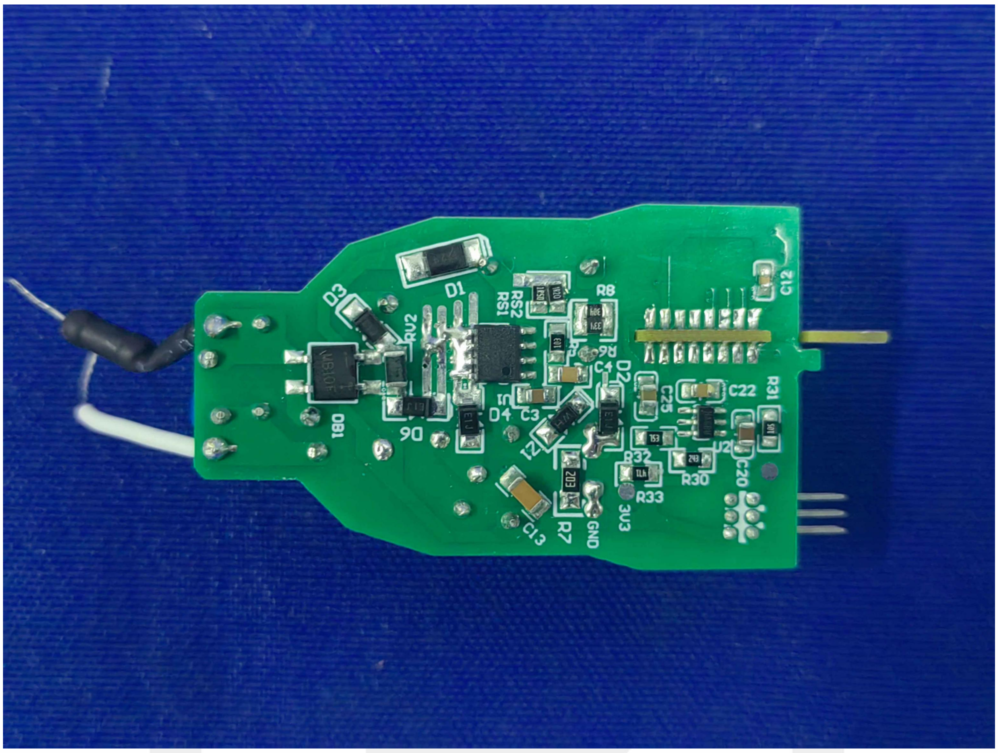
6.3 Photo of Magnetic field Emission Measurement

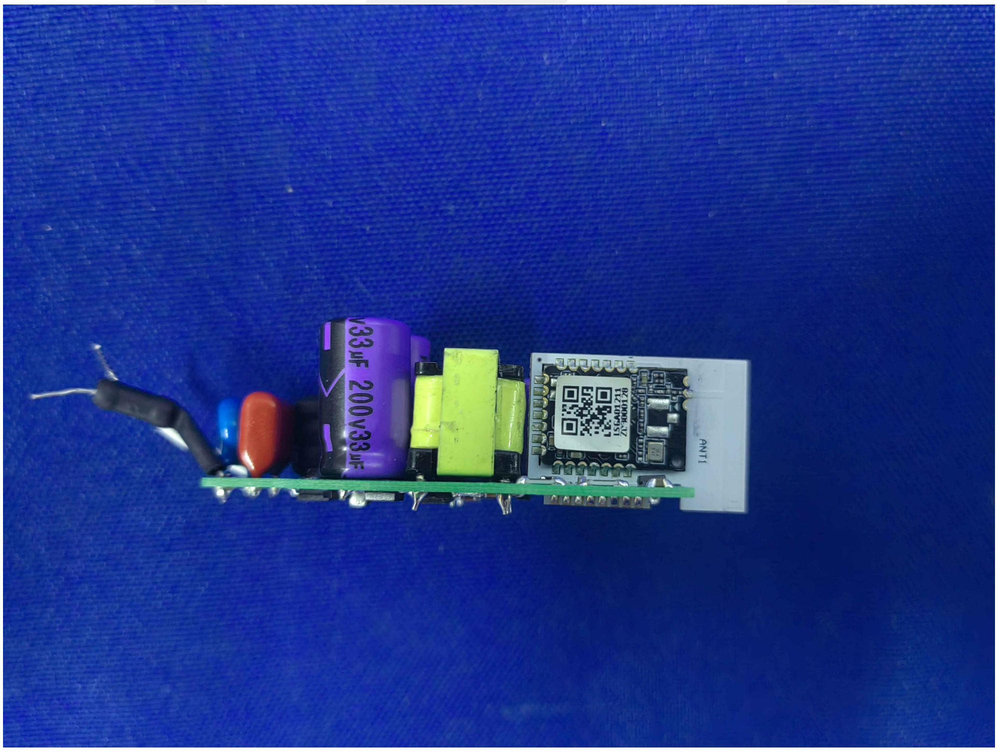
APPENDIX
(Photos of EUT)

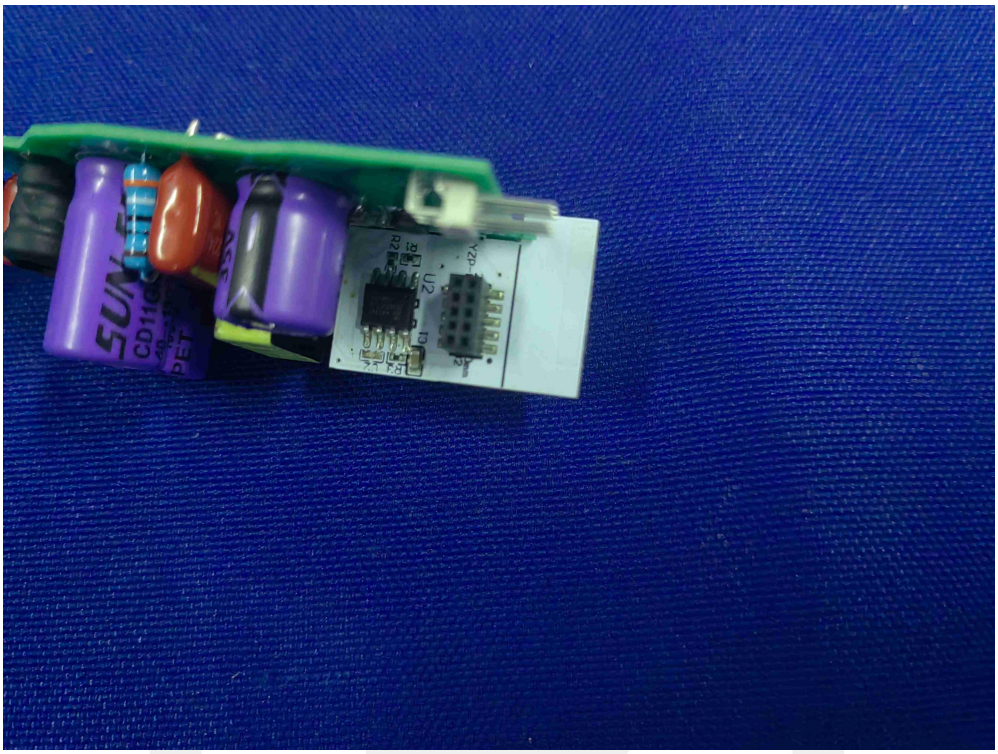
LB-L02E





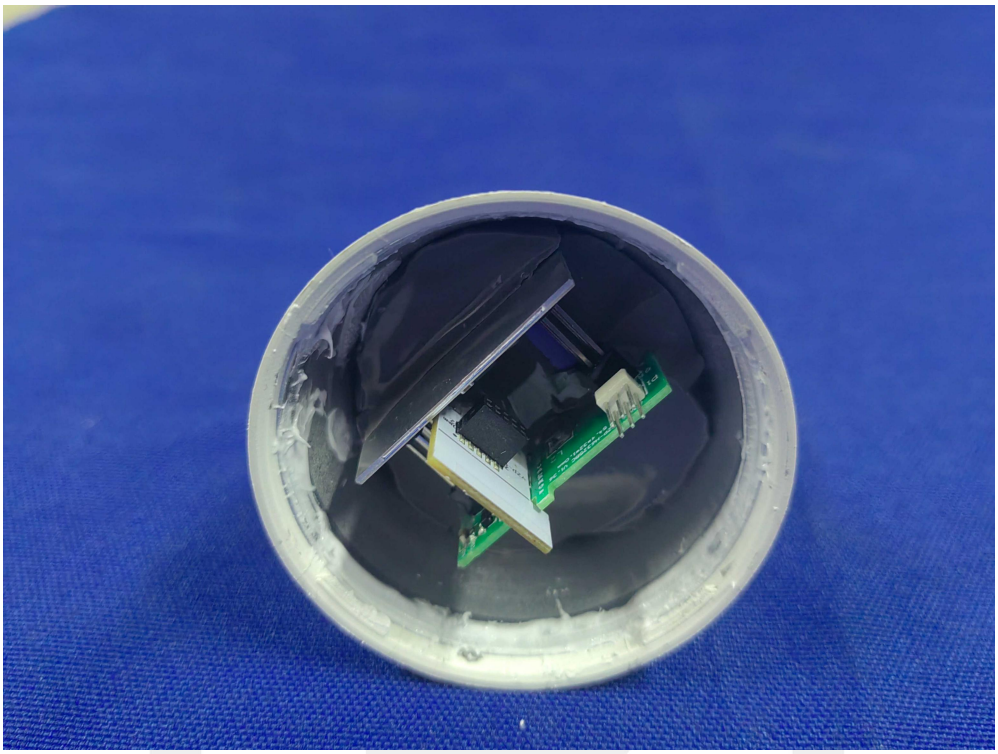


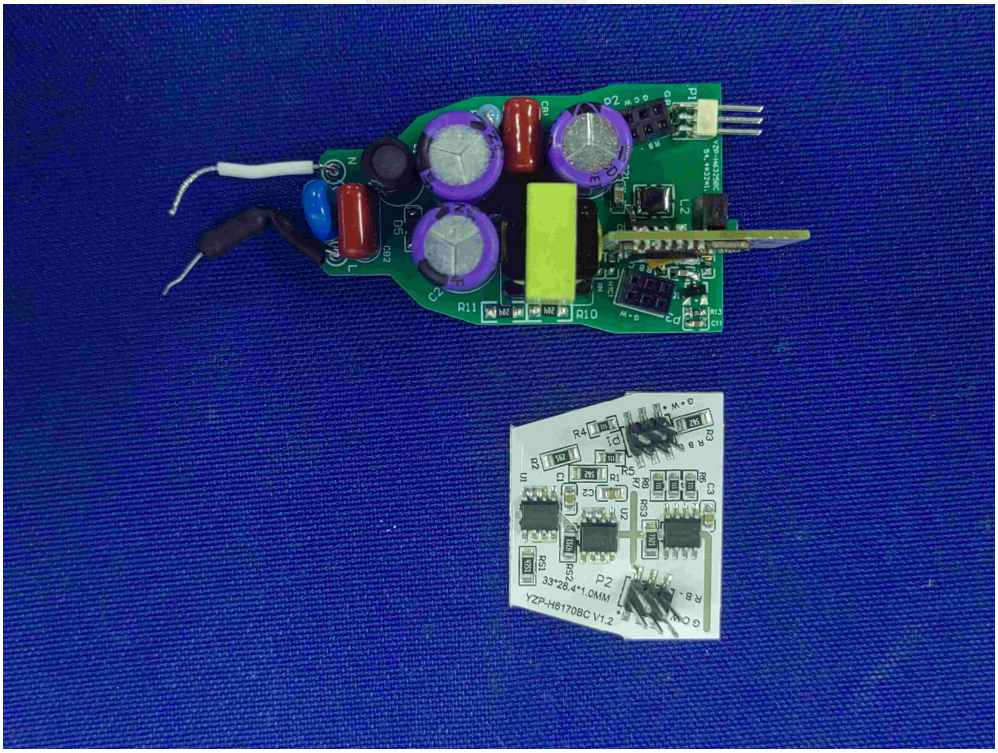


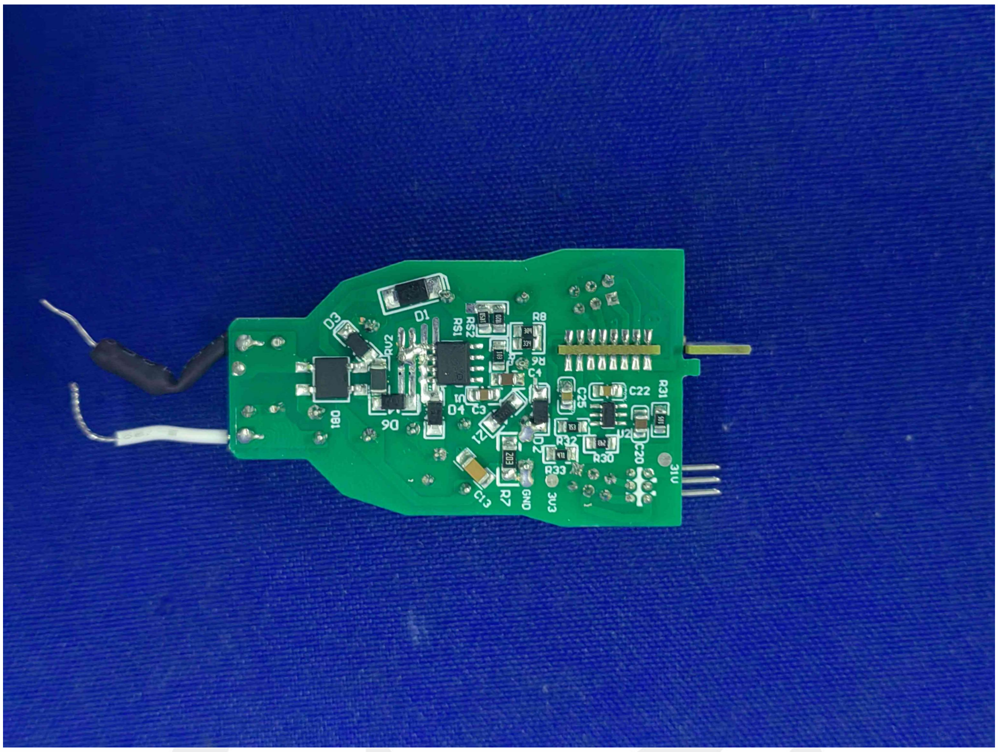


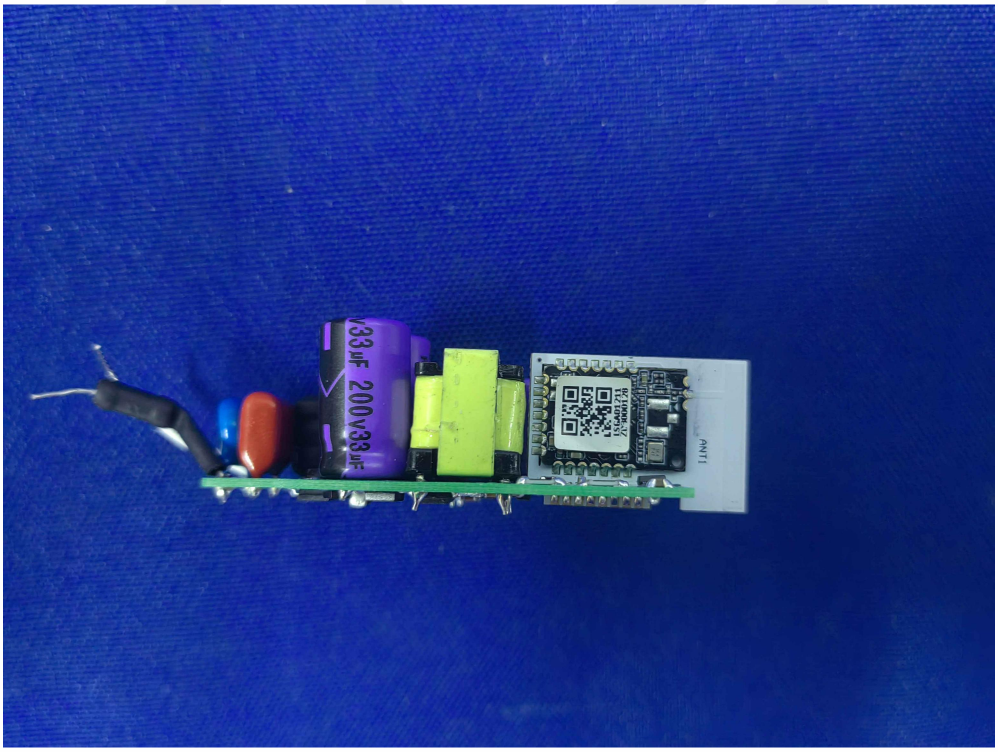
LB-L02D

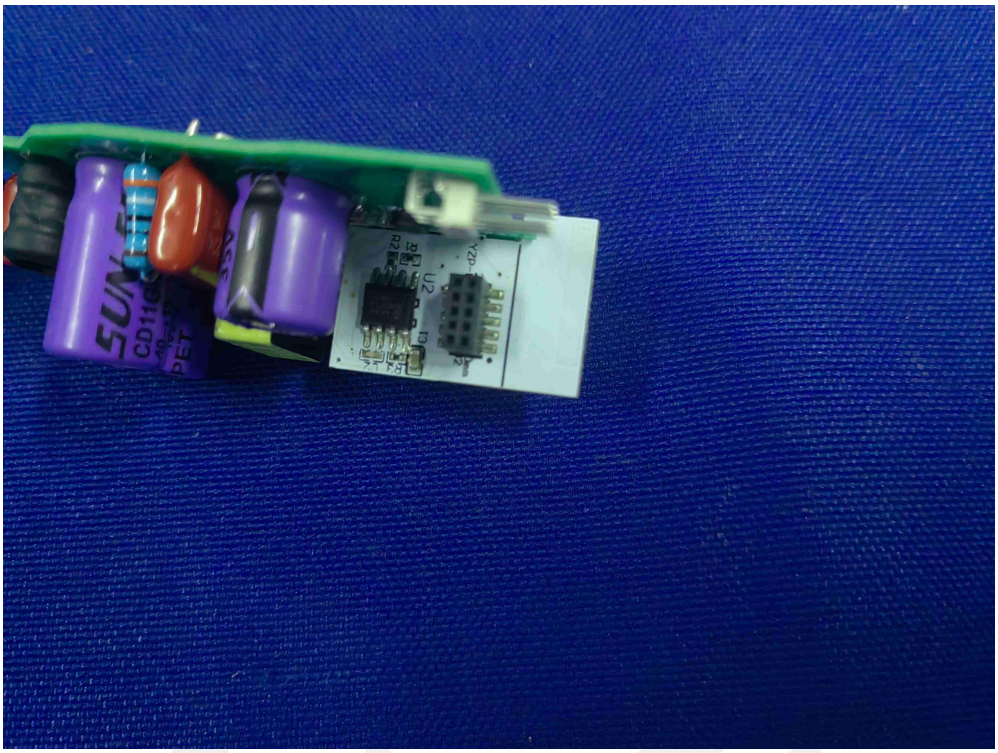

Made in China

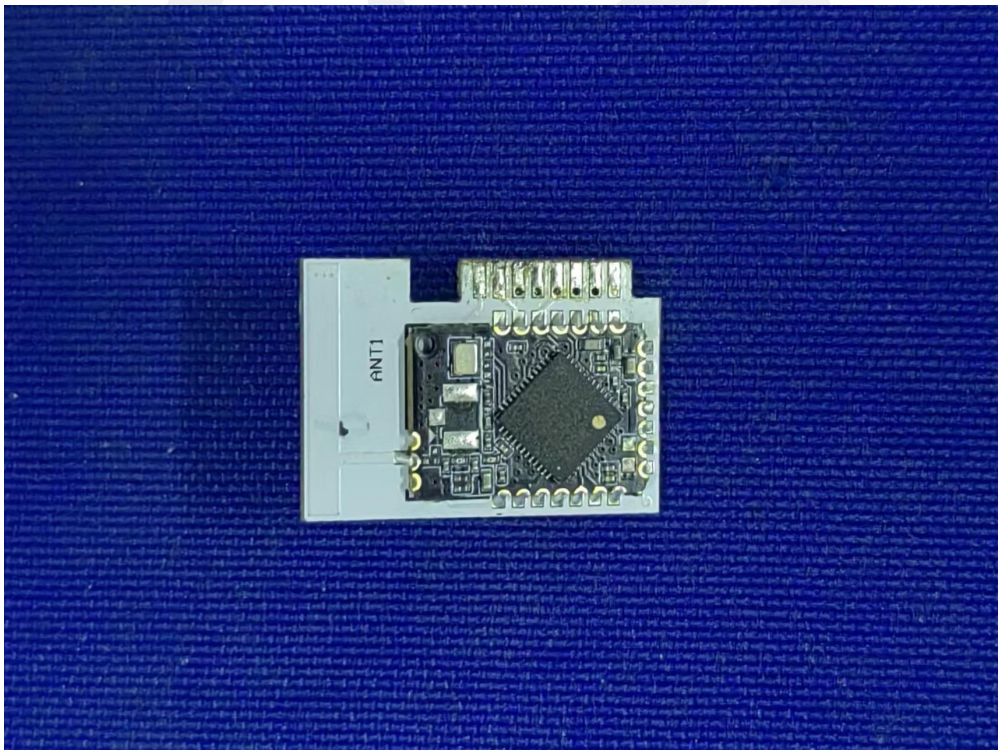


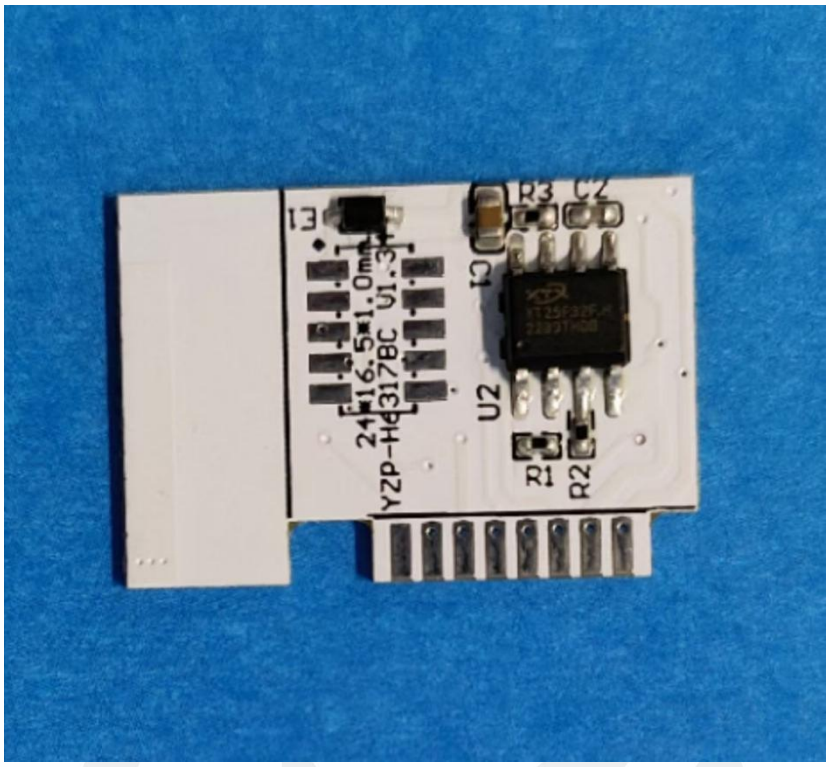

R11
R10
33*28.4*1.0MM
YZP-H5170BC V1.2

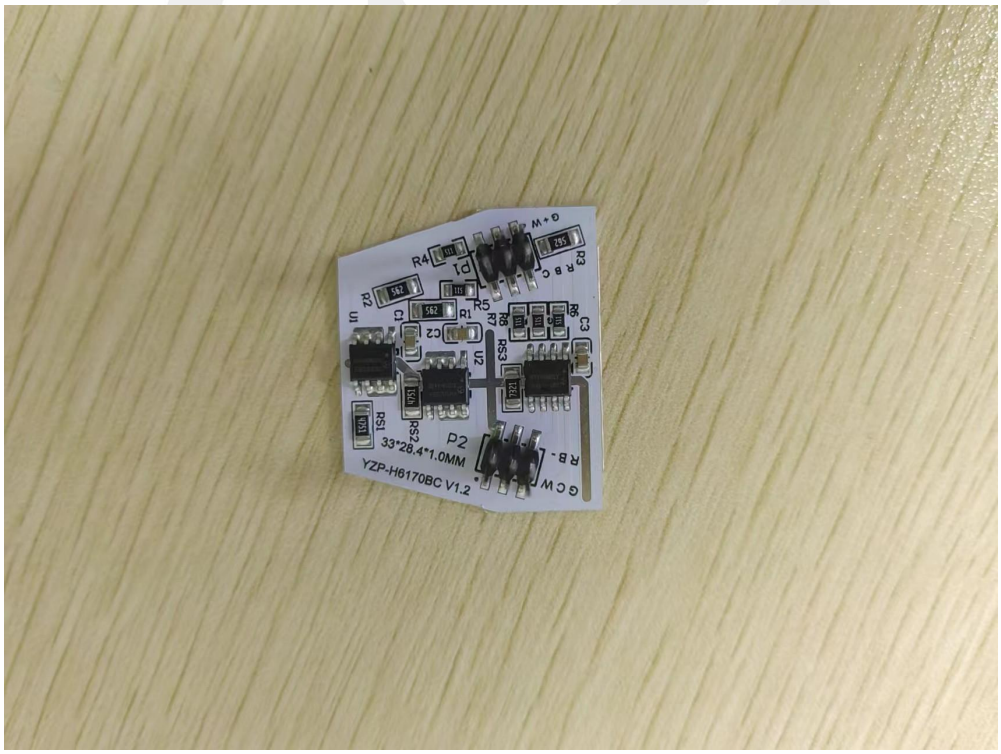







ANT1


R3
C2
C1
U2
R1
R2
YZP-H43178C V1.3


R4
D1
R2
R1
C1
C2
U1
U2
P2
33*28.4*1.0MM
YZP-H6170BC V1.2

----------The end ----------

声　明
Statement

1. 本报告无授权批准人签字及“检验报告专用章”无效；
   This report will be void without authorized signature or special seal for testing report.

2. 未经许可本报告不得部分复制；
   This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责；
   The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用；
   The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

5. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，本实验室不承担相关责任，特别约定、标准或规范中有明确规定的除外；
   The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.

6. 对本检测报告若有异议，请于收到报告之日起 20 日内提出；
   Objections shall be raised within 20 days from the date receiving the report.